ILLUMINATING UNIT

Publication number: JP2002344031
Publication date: 2002-11-29
Inventor: TAMURA TETSUSHI; NAGAI HIDEO; MATSUI NOBUYUKI; SHIMIZU MASANORI
Applicant: MATSUSHITA ELECTRIC IND CO LTD
Classification:
- international: ***H01L31/12; H01L33/00; H05B37/02;*** **H01L31/12; H01L33/00; H05B37/02** (IPC1-7): H01L33/00; H01L31/12; H05B37/02
- european:
Application number: JP20020059119 20020305
Priority number(s): JP20020059119 20020305; JP20010072694 20010314

Abstract of **JP2002344031**

PROBLEM TO BE SOLVED: To provide an illuminating unit, which is capable of keeping LEDs in a prescribed luminous state, even under the condition of the LEDs being different in characteristics from each other, by a method where the luminous intensity of a plurality of LEDs reflecting their light emission is detected by the use of a few photodetectors, and the drive of the LEDs is controlled on the basis of the detection signals. SOLUTION: An illuminating unit is equipped with a plurality of LEDs 8, which are arranged dispersed in two-dimensional directions, a transparent resin layer 10 integrally covering the LEDs, a photodetector unit which is equipped with photodetectors 9, arranged inside or on the surface of or near the transparent resin layer 10 to detect the emission intensity of the LEDs, and a power supply circuit unit which controls the drive of the LEDs, on the basis of the detection output from the photodetector unit. The number of the photodetectors is smaller than that of the LEDs, and the photodetectors detects the intensity of light, which is emitted from the LEDs and propagates through the transparent resin layer.